

50X1-HUM

DATE DIST. 10 Oct 1951

NO. OF PAGES 2

SUPPLEMENT TO
REPORT NO.

LANGUAGE Serbo-Croatian; Slovenian

THIS IS UNEVALUATED INFORMATION

SOURCE Newspapers as indicated.

START IODINE-EXTRACTION PROJECT;
EXPAND NONFERROUS METAL PRODUCTION

BEGIN PREPARATIONS FOR PRODUCING IODINE -- Split, Slobodna Dalmacija, 20 Jun 51

Zagreb, 20 June -- Laboratory experts of the Croatian Administration for Chemical Research in Zagreb have discovered a method for deriving iodine from thermal-spring water. Water from the Sisak springs will be utilized for this purpose; each liter of water from there contains 25 milligrams of elemental iodine.

Equipment for the production of elemental iodine will be built in Yugoslavia, probably in a metal factory in Zagreb. Miniature experimental equipment has been completed to aid in further research.

Individual thermal springs, such as those in Sisak, Novi Sad, Lipik, etc., contain considerable quantities of iodine, but the largest source of iodine is the sea.

Iodine exploitation in Yugoslavia will decrease its import and expand the production of iodine preparations. When a method is developed for obtaining iodine from waste alkaline water in salt basins, it will be possible to derive not only iodine, but bromine, magnesium, and other related elements from sea water.

DESIGN NEW FURNACE FOR MELTING ALUMINUM -- Zagreb, Narodni List, 21 Jun 51

Technician Vladimir Danev of the "Unitas" Foundry in Ljubljana has designed a new furnace for melting aluminum which uses petroleum as a fuel. Petroleum is burned in the channel around the metal crucible, thus producing extremely high temperatures which melt 170 kilograms of aluminum in one hour and 15 minutes. The metal crucible in the new furnace lasts at least four times longer than in ordinary furnaces. The new furnace is extremely simple and practical to construct.

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SPEND 240 MILLION DINARS ON DEVELOPING ANTIMONY PRODUCTION -- Ljubljana, Slovenski Porocvalec, 1 Jun 51

This year, 240 million dinars are to be spent on developing antimony production at the Zajaca Mine and Smelting Plant. A high-tension transmission line is to be built from Zajaca to Brasina on the Drina River, and a transmission station is to be built in Zajaca. A 14-kilometer conveyor is under construction. A new smelting plant, with 60 percent greater capacity than the present one, is also to be built soon. A large flotation installation, with five times as much capacity as the two flotation installations in operation at present, is to be put up in Brasina, near the Drina. New installations for the workshop and laboratory, as well as four apartments, and a railroad track, are to be completed by the end of 1951.

COMPLETE INSTITUTE FOR LIGHT METALS -- Belgrade, Borba, 30 May 51

Zagreb, 29 May -- The Institute for Light Metals, work on which was begun September 1950, is to be completed in July. The institute will have a laboratory and workshops with precision equipment.

Research on bauxite ore is to be one of the most important projects of the institute. It will work on the development of a complete series of aluminum alloys. It is already working on the process for obtaining duralumin, hard aluminum alloys, and a new method of casting.

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